Design and Implementation of Cloud Notes

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Abstract
With the rapid development of Internet, people’s lifestyle is changing. The way people gain knowledge is more and more diversified, online studying is emerging accordingly, in order to have more convenient recording notes for online study, cloud notes program is emerging. Customer can use CN not only to record, share and collect notes in studying and daily life, also to solve the problem such as low efficiency and high incorrect rate. CN can infinitely enlarge customers space through distributed solution. This designed CN has following feature, such as simple manipulation, friendly interface, good flexibility, stable operation and so on, improving the efficiency of customer management and recording notes.

Cloud notes is a very important application of personal storage project, compared with network disk store, cloud notes pay more attention to storage of text information. With the popularity of Internet, it is popular to store the statistics into CN, CN becomes a space people record and upload the text, you can write and store when you connect Internet whatever uses computer or mobile phone. Due to Cloud, CN is not simply a storage software strong cloud service means stable, safe, high speed to important datum you wanted. Multiple recording ways means cross platform versions to vocabulary, handwriting, picture and other diversified ways. \[1-3\]

1 Systematic functional structure

1.1 Loading function
Loading and registration of customer.

1.2 Notebook function
Establish, delete and rename of notebook.

1.3 Noting function
Check out, establish, delete, rectify and sharing movement.
1.4 Recycle function

Restoration and complete deletion.

1.5 Sharing notes function

Customer can search the notes they sharing, and collect the notes they searching.

2 Systematic data base

2.1 Design of data base

Through demand analysis system, decision of systematic functional pattern, design of database, database name is cloud notes, seven diagrams, detailed list is following:

<table>
<thead>
<tr>
<th>Title</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cn_user</td>
<td>customer information list, store customer basic data information</td>
</tr>
<tr>
<td>cn_notebook</td>
<td>notebook list, store notebook data information</td>
</tr>
<tr>
<td>cn_notebook_type</td>
<td>notebook types list, store notebook types data information</td>
</tr>
<tr>
<td>cn_note</td>
<td>note list, store basic information of note</td>
</tr>
<tr>
<td>cn_note_type</td>
<td>note types list, store note types data information</td>
</tr>
<tr>
<td>cn_note_status</td>
<td>note status list, store note status data information</td>
</tr>
<tr>
<td>cn_share</td>
<td>note share list, store sharing data information</td>
</tr>
</tbody>
</table>

2.2 Data list

2.2.1 cn_user
Restore customer information of loading system, note: restored customer account number should be encrypted

2.2.2 cn_notebook
Notes current customers established should be restored in notebook, while notebook information restores in notebook list, every customers owns various different types of notebooks to restore different types information of user.

2.2.3 cn_notebook_type
Notes current customers established should be restored in notebook, while different notebooks have different types of notebooks, data of notebook types restore into notebook-type list.

2.2.4 cn_note
Restore note information established by user needs user identity and notebook identity.

2.2.5 cn_note_type
Used to restore current established types of notes

2.2.6 cn_note_status
2.2.7 cn_share
User can share their notes and restore note into note sharing list

3 System pattern

3.1 Loading pattern

User name consist by four to twenty letters, numbers and underlines, password can not less than six units, verify password, user name can not repeat, when you click registration validation, new user established when validation pass, system will jump to loading page when registration is successful. After successful registration, user can loading cloud note through the account number, after entering cloud note, user can set up note based on notebook, every note should restore in notebook, the relation between note and notebook is one to many.

Before user establish note, they need choose a notebook that user establishes by themselves, system will arrange three presented notebook when user registers successfully.

3.2 Acquiescent notebook

User can use notebook that the system gives to establish note directly.

3.3 Recycle bin

The notes user deleted will shift into recycle bin not directly delete, user can restore their note or delete these note completely.

3.4 Favorite

User can search note other sharing and collective, system will collect the note into their favorite.

3.5 Notebook pattern

User need load their current note to into note list, after successfully loading and jumping to main passage.

3.6 Note pattern

When user want to check one of his notebook in all note list, they need to click current notebook and load note list in total list the notebook shows.
4. Systematic test

Testing system During the process of development. Namely after each logical unit pattern, should test it. Meanwhile, should test the pattern after complete it. Eventually through gradual integration will have assemble test of system.

REFERENCES